

★TOKE

W04

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Diffraction optical element manufacturing method for optical pick-up head apparatus - involves forming diffraction optical element by injection moulding using mould formed from resist pattern left in groove by non-electrolytic plating

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The method involves coating resist on a substrate (11) and forming a resist pattern of predetermined shape. Then, etching of the substrate is performed using the resist pattern as a mask. A heavy metal film (13) is formed on the etched substrate to form a groove on it.

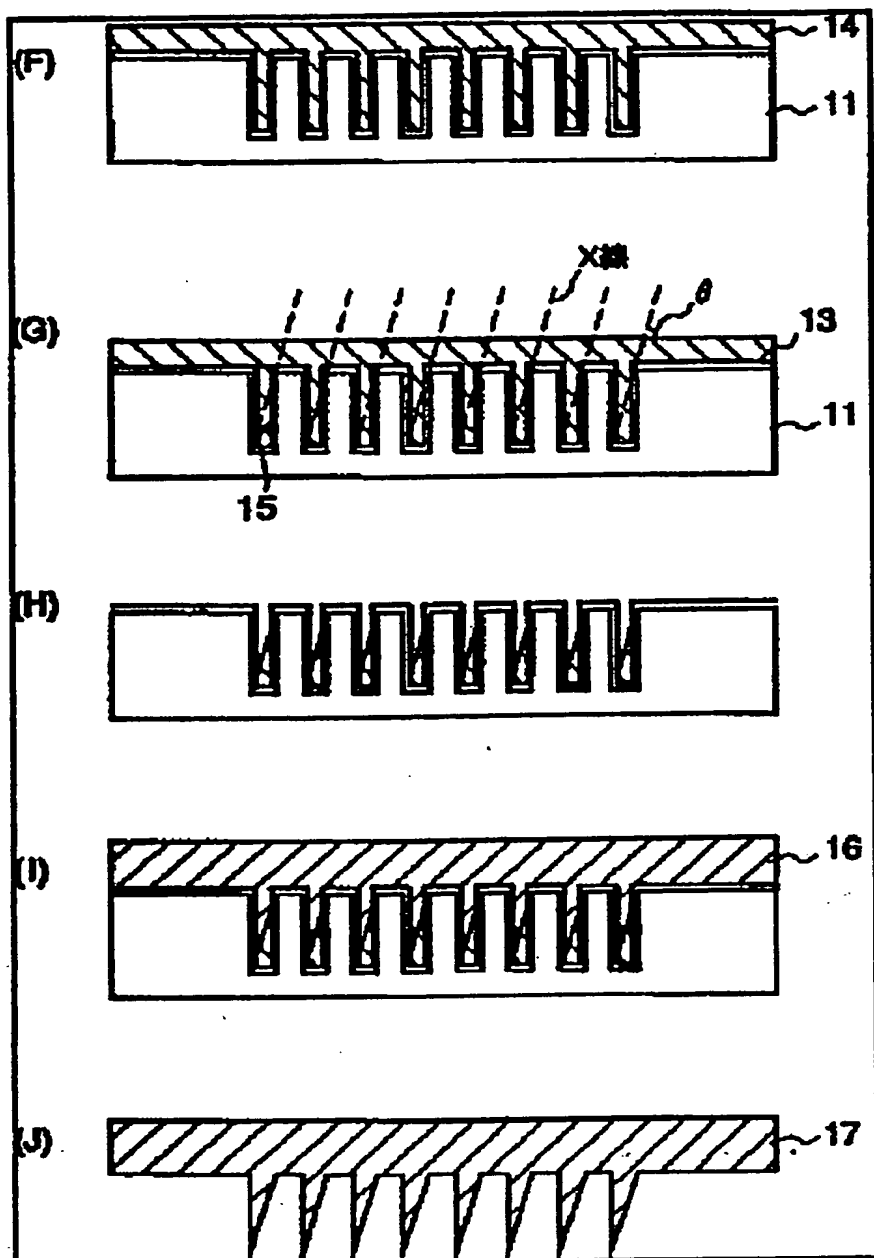
A mould die (17) formed from the resist pattern left in the groove by non-electrolytic plating, after radiating X-rays onto the groove at predetermined projection angle. A diffraction optical element is formed using the formed mould by injection moulding.

ADVANTAGE - Offers inexpensive optical pick-up head apparatus. Improves optical utilization efficiency. (5pp Dwg.No.2/5)

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